Claims

1. Process for the melt spinning of PES microfilaments with a titre of not more than 0.7 dtex.

characterised in that

the microfilaments are spun from the melt of a polyester with reduced relative solution viscosity compared with PES fibre spinning grades with relative solution viscosities of between 1.60 and 1.65 as a function of their titre.

- Process according to claim 1,
 characterised in that
 the polyester melt is polyethylene terephthalate.
- 3. Process according to claim 1 or 2,

characterised in that

the titres of the microfilaments are spun from polyterephthalate melts of which the reduced relative solution viscosity is determined according to the formula

eta re! = $(0.1052 \times lnX) + 1.649$,

where X is the DTY titre in dtex,

wherein the spinning speed is 2500 m/min ± 10%,

wherein the spin performance of defined filament titres can be realised with a breadth of fluctuation of relative solution viscosity of \pm 0.05.

4. Process according to claim 2 or 3,

characterised in that the reduced relative solution viscosity of the polyethylene terephthalate melt is adjusted by adding and homogeneously mixing in at least one viscosity-regulating additive.

- Process according to claim 4,
 characterised in that the additive is selected from the group comprising aliphatic diols and water.
- 6. Process according to claim 5, characterised in that the aliphatic diol is selected from the group comprising triethylene glycol, diethylene glycol and ethylene glycol.
- 7. Process according to claim 1, characterised in that filaments with titres from 0.1 to 0.7 dtex are spun.
- Process according to claim 7,
 characterised in that filaments with titres from 0.1 to 0.35 dtex are spun.
- Process according to claim 7,
 characterised in that filaments with titres from 0.1 to 0.2 dtex are spun.
- 10. Polyester microfilaments with a titre of not more than 0.7 dtex, manufactured according to any of claims 1 to 9, characterised in that they have a dyeing uniformlty value according to grey scale from 4.0 to 5.0 and a delta E value of less than 1.0.